

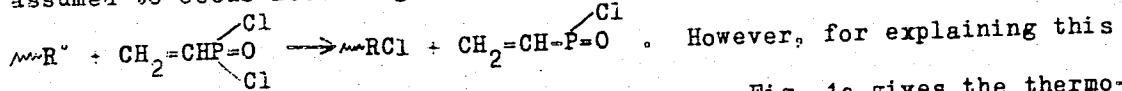
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S/190/61/003/003/010/014
B101/B204

✓

Carbon-chain polymers and...

phosphinic acid. Polymer I, yield 19%, contained 25% benzyl groups and about 75% free OH groups. The softening temperature amounted to 50°C. At 200°C, the deformation was 20%, above 200°C, decomposition began. For II, the yield was 63.5%, softening temperature 50°C; for III: yield 37%, softening temperature 30°C. The table gives the results of the copolymerization of VPC with methylmethacrylate (in nitrogen atmosphere at 50°C). The decrease of molecular weight (and viscosity respectively) with a growing PVC content is believed to be due to the low activity of the radicals, which form from the polymer radical with PVC. The regrouping of this radical according to C. L. Arkus, R. J. S. Matthews (Ref. 4: J. chem. Soc., 1956, 4607) or breaking off of the reaction is assumed to occur according to the following scheme:



mechanism, further research work is necessary. Fig. 1a gives the thermo-mechanical properties of these copolymers. Under the effect of water upon these copolymers dissolved in dichloroethane, copolymers are formed from methylmethacrylate and vinylphosphinic acid, which are insoluble

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in dichloroethane, alcohol, dimethylformamide, and 8% NaOH. As is shown by Fig. 16, the softening temperature increases for this copolymer with a growing vinylphosphinic acid content. This is explained by the forming of hydrogen bonds between the polymer chains. The copolymerization of VPC with styrene was carried out at the same conditions as with methylmethacrylate. These copolymers were insoluble in benzene and ethyl acetate. Their thermal properties are shown by Fig. 16. Copolymerization of VPC with vinylacetate in the molar ratio 1 : 1 at 50° with 0.2 mole% azoisobutyric acid dinitrile after 1-2 hr led to a solid copolymer containing 58.7 mole% vinylacetate. This copolymer, which is soluble in dichloroethane easily reacted with water. Here, not only the chloride groups but also the ester groups are saponified, and a water-soluble co-polymer of the vinylphosphinic acid with vinyl alcohol was formed. The authors thank M. I. Kabachnik for putting the VPC at their disposal, and G. L. Slonimskiy and his collaborators for determining the thermo-mechanical properties of the copolymers. There are 1 figure, 1 table, and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publication is given in the text of the abstract.

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ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR
(Institute of Elemental Organic Compounds of the AS USSR)

SUBMITTED:
September 2, 1960

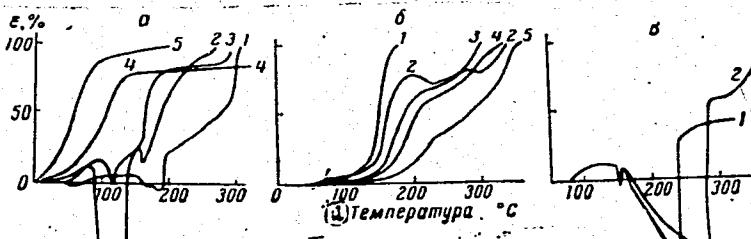


Fig. 1

Legend to Fig. 1a and 1b : mole% VPC: 1) 10; 2) 20; 3) 30; 4) 40;
5) 50; Fig. 1b : 1) 20; 2) 30; a) temperature .

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Состав исходной смеси мономеров, мол. %		Характер полимера	Содержание фосфора в сополимере (среднее), %	Растворимость в дихлорэтане	Удельная вязкость 2 %-ного раствора в дихлорэтане	Температура размягчения, °C	
ХВФК	ММА					(c)	(d)
10	90	Прозрачный твердый	0,99	Частично растворим, сильно набухает	—	—	—
20	80	То же	2,89	То же	—	—	—
30	70	Прозрачный хрупкий	5,02	Большая часть растворима	2,36 ¹	—	—
40	60	То же	—	Растворим	1,25	—	—
50	50	• •	—	То же	—	—	—

1,0 мол. % динитрила азопиазомасляной кислоты(7)

10	90	Прозрачный твердый	0,99	Частично растворим, сильно набухает	—	—	—
20	80	То же	2,89	То же	—	—	—
30	70	Прозрачный хрупкий	5,02	Большая часть растворима	2,36 ¹	—	—
40	60	То же	—	Растворим	1,25	—	—
50	50	• •	—	То же	—	—	—

10	90	Прозрачный твердый	0,40	Растворим	1,67	Начинается выделение газов разных продуктов при 80°	130
20	80	То же	2,46	Набухает	—		140
30	70	• •	5,20	Растворим	1,37		150
40	60	• •	—	То же	0,93		160
50	50	Прозрачный вязкий	7,56	• •	0,55		—

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Legend to the table: 1) Initial mixture of monomers, mole%: a) VPC; b) Methylmethacrylate; 2) Nature of the polymer; 3) Mean P content of the copolymer; 4) Solubility of dichloroethane; 5) Specific viscosity of the 2% solution in dichloroethane; 6) Softening temperature; c) the copolymer from VPC+methylmethacrylate; d) the saponification product; 7) mole% azoisobutyric acid-dinitrile; 8) Transparent; 9) Solid; 10) Solid; 11) Brittle; 12) Viscous; 13) Partly soluble, swells considerably; 14) For the most part soluble; 15) Soluble; 16) Swells; 17) at 80°C evolution of gaseous products begins.

Card 6/6

KOLESNIKOV, G.S.; RODIONOVA, Ye.F.; FEDOROVA, L.S.; GAVRIKOVA, L.A.

Carbochain polymers and copolymers. Part 27: Polymerization and copolymerization of di-n-butyl vinylphosphonate. Vysokom. soed. 2 no.9:
1432-1437 S '60. (MIREA 13:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Polymerization)

RODIONOVA, Ye.G.; BEKKER, Z.E.; LUPACH, Ye.I.

Producing strains, antifungal activity, control methods, and
deep fermentation of trichotecin. Antibiotiki 5 no. 5:25-29
S-0 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)

BEKKER, Z.E.; RODIONOVA, Ye.G.; YANGULOVA, I.V.; PETROVA, M.A.; KOROLEVA, V.G.;
MAYEVSKIY, M.M.; ROKARENKO, Ye.A.; URAZOVA, A.P.; BONDAREVA, A.S.;
MAZAYEVA, V.G.; TIMOSHECHKINA, M.Ye.; MOL'KOV, Yu.N.

Tumor-inhibiting properties of mycelial extracts from some fungi.
(MIRA 15:1)
Antibiotiki 6 no.6:488-492 Je '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.
(TUMORS) (FUNGI-PHYSIOLOGICAL EFFECT)

BEKKER, Z.E.; RODIONOVA, Ye.G.; YEGOROVA, Ye.I.; SINITSINA, Z.T.; GINZBURG,
G.N.

Producer and biological properties of, and fermentation experiments
on preparation No. 125. Trudy Vses. inst. sel'khoz. mikrobiol. 17:
147-152 '60. (MIRA 15:3)

(Antibiotics)

BEKKER, Z.E.; SUPRUN, T.P.; YANGULova, I.V.; AVRAAMOVA, O.P.;
RODIONOVA, Ye.G.

Studies on antagonistic fungi inhabiting the soils of alpine
plant formations of Central Asia. Bot. zhur. 46 no.11:1627-1637
N '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.
(Soviet Central Asia--Soil micro-organisms)

BEKKER, Z.E.; SUPRUN, T.P.; RODIONOVA, Ye.G.; YANGULOVA, I.V.

Cytotoxic properties of extracts from fungal mycelia. Antibiotiki
(MIRA 14:5)
6 no.2:108-111 F '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut' antibiotikov.
(FUNGI) (CYTOTOXIC DRUGS)

RODIONOVA, Yevgeniya Ivanovna, kand. med. nauk; MOROZOV, N.N., red.;
BALDINA, N.F., tekhn. red.

[Essays on the history of the trade union movement among
medical workers] Ocherk istorii professional'nogo dvizhe-
nia meditsinskikh rabotnikov. Moskva, Medgiz, 1962. 247 p.
(MIRA 15:3)

(Medical personnel) (Trade unions)

RODICNOVA, Ye. I., Cand Med Sci -- (diss) "Materials on the mechanism of the effect of dimedrole on some infectious-toxic and allergic reactions. (Experimental research)." Kazan', 1960. 10 pp; (Ministry of Public Health RSFSR, Kazan' State Medical Inst); 200 copies; price not given; (KL, 26-60, 144)

YELISEYEVA, G.A.; RODIONOVA, Ye.I.

Tracheobronchoscopy in tuberculosis. Kaz.med.zhur. no.2:12-15
Mr-Ap'63 (MIRA 16:11)

1. Respublikanskiy protivotuberkuleznyy dispanser Tatarskoy ASSR (glavnyy vrach - Z.M.Kutuyeva, nauchnyy konsul'tant prof. N.N.Lozanov).

*

PODPOL'NYY, S.A. Prinimali uchastiye: YUMASHEVA, T.I., ass.;
RODIONOVA, Ya.I., kand. med. nauk

[Municipal polyclinic] Gorodskaya poliklinika. Moskva,
TSentr. in-t usovershenstvovaniia vrachei, 1963. 259 p.
(MIRA 16:11)

1. Kafedra organizatsii zdorovokhraneniya TSentral'nogo
instituta usovershenstvovaniya vrachey (for Yumasheva,
Rodionova).

(CLINICS)

RODIONOVA, Ye. I.

Effect of dimedrol on the development of tuverculin reactions. Biul.
eksp.biol. i med. 48 no.10:59-61 O '59. (MIRA 13:2)

I. Kurs tuberkuleza (zav. - prof. B.I. Mazur) Kazanskogo meditsinskogo
instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Cherni-
govskim.

(DIPHENHYDRAMINE pharmacol.)
(TUBERCULIN REACTION pharmacol.)

RODIONOVA, Ye.I.

The effect of dimedrol on the development of Shwartzman's phenomenon [with summary in English]. Biul.eksp.biol. i med. 45 no.4:111 Ap'58 (MIRA 11:5)

IJz otdela tuberkuleza Kazanskogo meditsinskogo instituta.
(DIPHENHYDRAMINE, effects
on develop. of Shwartzman phenomenon in rabbits (Rus))
(ANTIGEN-ANTIBODY REACTION
Shwartzman phenomenon, eff. of diphenhydramine on
develop. in rabbits (Rus))

RODIONOVA, Ye. I.: Master Med Sci (diss) -- "The professional movement of medical workers". Moscow, 1958. 20 pp (Min Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, No 8, 1959, 139)

RODIONOVA, Ye.I.

~~Effect of dimedrol on the development of the Shwartzman phenomenon
[with summary in English]. Biul. eksp.biol. i med. № 8:87-88
Ag '58~~
(MIRA 11:10)

1. Iz kursa tuberkuleza Kazanskogo meditsinskogo instituta
(zav. - prof. B.L. Mazur). Predstavlena deystvitel'nym chlenom
AMN SSSR V.V. Zakusovym.

(ALLERGY, exper.

Shwartzman phenomenon, eff. of diphenhydramine in
rabbits (Rus))

(DIPHENHYDRAMINE, eff.
on Shwartzman phenomenon in rabbits (Rus))

RODIONOV, Ye. I.

Pathogenesis of disseminated forms of pulmonary tuberculosis.
Nauch. trudy Kaz. gos. med. inst. 14:275-276 '64. (MIRA 18:9)

I. Kurs tuberkuleza (zav. - prof. B.L.Mazur) Kazanskogo meditsinskogo instituta.

KARIMOVA, Z.Kh.; RODIONOVA, Ye.I.

Pronolis in the treatment of tuberculosis. Nauch. trudy Kaz. gos.
med. inst. 14:449-450 '64. (MIRA 18:9)

1. Kafedra mikrobiologii (zav. - dotsent Z.Kh.Karimova) i
kafedra tuberkuleza (zav. - prof. B.L.Mazur) Kazanskogo
meditsinskogo instituta.

CHERNEYEVA, L.I., kand. tekhn. nauk; RODIONOVA, Ye.K., inzh.

Calculation of some thermodynamic properties of monoisopropylbiphenyl. Teploenergetika 10 no.7:73-75 Jl '63.
(MIRA 16:7)

1. Energeticheskiy institut im. Krzhizhanovskogo.
(Biphenyl—Thermodynamic properties)

BUTENKO, G.A.; KORZH, V.P.; RODIONOVA, Ye.M.

Conditions for the separation of arsenic and production of a
blue arsenic-molybdenum complex. Zhur.anal.khim. 16 no.6:692-
694 N-D '61.
(MIRA 14:12)

1. Institut of Ferrous Metallurgy, Academy of Sciences,
Ukrainian S.S.R., Dnepropetrovsk.
(Arsenic--Analysis)
(Molybdenum compounds)

137-58-5-11111

Rodionova, Ye. M.
Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 315 (USSR)

AUTHORS: Butenko, G.A., Rodionova, Ye. M.

TITLE: A Comparative Study of Methods for the Determination of Arsenic in Ores, Concentrates, and Sinter (Sravnitel'noye izucheniiye metodov opredeleniya mysh'yaka v rudakh, kontsentratakh i aglomeratakh)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp. pravl., 1956, Vol 4, pp 119-124. Comments, pp 131-137

ABSTRACT: The As determination method, which relies upon the measurement of the intensity of the color produced by AsH₃ in paper saturated with a solution of Hg salts, can not be applied to Fe ores because the AsH₃ does not separate out in sufficient quantities in the presence of salts (of Cu, Fe, and other metals). The photocolorimetric method is the most sensitive [0.01 mg of As in 50 mm (should probably read "50 cc", Transl. Ed.) of solution]; the bromatometric method is approximately 1/10 as sensitive, whereas the hypophosphite method produces low readings due to As losses. For purposes of photocolorimetric determination, a 0.5-g portion is placed into a distillation flask to

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137-58-5-11111

A Comparative Study of (cont.)

which 0.5 g of KBr, 0.3 g of hydrazine sulfate, and 40 cc of HCl (1:1) are added; after bubbling through a stream of CO₂, the liquid is brought to a boil and As, which is driven off in the form of AsCl₃, is absorbed by water; the distillation process is kept up until 2/3 of the total volume has been driven off. If the material has not dissolved completely in the HCl, the batch is preliminarily sintered with 0.3 g of Na₂CO₃ in a Pt crucible at a temperature of 1000°C for a period of 50 seconds. After distillation, the distillate is neutralized with NH₄OH, using phenolphthalein as an indicator, and enough water is added to bring the volume to 100 cc. 10-20 cc of the resulting solution are treated with 0.05-N KMnO₄ solution until color appears; the remainder of the solution is reduced with 2 cc of a 0.15% hydrazine sulfate solution; after adding water to increase the volume to 34 cc, 4 cc of a (NH₄)₂MoO₄ solution (12.5 in 1 liter of 6.5-N H₂SO₄) are added and the mixture is heated in a waterbath for a period of 15 minutes. After the solution has cooled off and enough water is added to increase the volume to 50 cc, the solution is analyzed by colorimetric methods. A "dry-run" test is conducted employing an identical amount of distillate. The relative error in the determination is 1.5%.

N.G.

1. Arsenic--Determination 2. Ores--Test methods

Card 2/2

BUTENKO, G.A.; RODIONOVA, Ye.M.; KORZH, V.P.

Photocolorimetric determination of arsenic in ferrous
metals. Zav.lab. 27 no.7:808-810 '61. (MIRA 14: 7)

1. Institut chernoy metallurgii Akademii nauk USSR.
(Arsenic--Analysis)

RODIONOVA, Ye.N.; YAKOVLEV, I.I., professor, nauchnyy rukovoditel'.

Application of cutaneo-cranial forceps by the Ivanov method in various types of obstetric complications. Akush. i gin. no.3:37-40 Hy-Je '53.
(MLRA 6:7)

1. Sverdlovskiy nauchno-issledovatel'skiy institut okhrany materinstva
i mladenchestva.
(Labor (Obstetrics))

RODIONOVA, Ye.N.

Use of polyglucin in hemorrhages and shock symptoms in labor. Vop.
okh. mat. i det. 6 no.11:64-66 N '61. (MIRA 14:12)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta okhrany
materinstva i mladenchestva (dir. - kand.meditinskikh nauk R.A.
Malysheva, nauchnyy rukovoditel' - doktor med.nauk V.M.Lotis).
(LABOR, COMPLICATED) (SHOCK)
(HEMORRHAGE, UTERINE) (DEXTRAN)

Rodionova, Ye.P.

Chemical Abst.
Vol. 48 No. 3
Feb. 10, 1954
Organic Chemistry

Steric hindrance in formation of stereoisomeric N-polyhydroxyalkyl substituted *o*-aminobenz azo dyes. V. M. Il'琴
zovskii and E. P. Rodionova *Vestn. Akad. Nauk SSSR*, 1953, No. 1, p. 57, 68-73
(1953). Coupling of isomeric glucamines with PhN₂X and *p*-O₂N₂C₆H₄N₂X was studied. If a cis arrangement of 2 HO groups on 2' and 3' positions of the glucamine chain exists, the azo coupling is rapid and azo dyes of ribamine and arabinamine are obtained in good yields; in terms of steric hindrance in formation of the HO groups on 2', and 3' position, steric hindrance arises thus causing retardation of the coupling and the side-reactions, in which diazonium derivs. of the xylamine and arabinamine become fairly prominent. The latter products decom. on heating. The glucamine (1 g.) in 100 ml. H₂O at 60-80° is treated with 0.5 ml. HCl, cooled to 20-5°, the soln. added to the diazonium salt soln. (from 0.46 g. PhNH₂, 0.08 g. H₂SO₄, and 0.34 g. NaNO₂ at various pH levels (NaOAc buffer)); the resulting ppt. is filtered off and dried. At pH 4, 3,4-xylyl-D-ribamine and PhN₂X rapidly gave 85% *o*-phenylazo deriv., m. 174-5°, with absorption max. 250, 330, and 480 imp.. At pH 5 there are formed 0.0% 3,4-xylyl-D-ribamine, phenyldiazoinino deriv., decom., 135.5°, and 0.4% above phenylazo deriv. 3,4-Dimethylphenyl-D-arabinamine at pH 1.8 with PhN₂X gave 10.6% 3,4-xylyl-6-phenylazo-1-D-arabinamine, decom., 203-4°, while at pH 2.8 there is formed 73.7% 3,4-xylyl-D-arabinamine phenyldiazoinino deriv., decom., 160.8°. 3,4-xylyl-D-lyxamine similarly gave at pH 3 32% 3,4-dimethylphenyl-6-phenylazo-1-D-lyxamine, m. 130-3.5°; at pH 3.5 the yield is 44%, and at pH 3.8-4.0 the yield is 81%, while at pH 6 there is formed 98% 3,4-xylyl-D-lyxamine phenyldiazoinino deriv., decom., 114°. Similar reaction with 3,4-xylyl-D-xylamine at pH 2.7-3.0 gave 40.0% 3,4-dimethylphenyl-6-phenylazo-1-D-xylamine, m. 139.5-40°; a 68% yield results at pH 4, along with unstated amount of the phenyldiazoinino deriv., decom., 112°, which forms in 56% yield at pH 5. *p*-Nitrophenyldiazonium salts with

(over)

3,4-dimethylphenyl-p-arabitylamine yield the 6-p-nitrophenyl derivative, m. 107-8°, and the p-nitrophenyl-diazomino derivative, decomp. 182.5°. 3,4-Dimethylphenyl-p-ribitylamine has absorption max. 210 m μ , ϵ 1.7 \times 10⁴; arabityl analog, absorption max. 325 m μ , ϵ 1.09 \times 10⁴; p-xylol analog, absorption max. 471 m μ , ϵ 1.16 \times 10⁴. Replacement of H on NH group of the primary aromatic derivs. by polyhydroxyalkyl group shifts the absorption max. to longer wavelength, in respect to 3,4-dimethylaminobenzene, by 6 m μ . Replacement of the residual H of the NH in these by diazo group brings out a new max. at about 350 m μ and intensifies the previous max. Phenylazo groups introduced into the ring of the glucamines shifts the 1st absorption max. to longer waves by 23 m μ , with increase of abs., and causes a new max. at 471 m μ to appear. The O,N group causes a greater shift toward longer wavelength than does the Ph group.

G. M. Kosolapoff

RODIONOVA, E.P.

CZECH

Transformations and synthesis of carbohydrates. VII.
Synthesis of *D*-ribose. V. M. Uvarovskii and E. P. Rodionova. *Sbornik Statei Obozrecheni Khim.* 2, 939-943 (1963). cf. C.A. 45, 5628g; 49, 870g.—Oxidation of 100 g. *D*-arabinose with 45 ml. Br in 500 ml. H₂O in 2 days at room temp. in the dark, followed by air-blowing and neutralization with CaCO₃, gave 87% *Ca D*-ribonate pentahydrate. This (150 g.) in 625 ml. H₂O and 50 g. pyridine heated in an autoclave 5 hrs. at 135-7°, filtered, and cooled gave excess Ca arabinate ppt.; while the filtrate was steam distill., and the residue treated of Ca with 16.5 g. (CO₂H)₂; the filtrate, after treatment with activated C, was treated with 24 g. CdCO₃ 1 hr. on a steam bath, filtered, and evapd. *in vacuo* to a syrup which with MeOH gave 0% *Cd D*-ribonate; $C_6H_{12}O_5Cd$. This (10 g.) in 300 ml. H₂O treated at 30-5° with H₂S, filtered, and evapd. *in vacuo* gave 72% *D*-ribonic acid, m. 112-13°. The Cd salt (10 g.) in 20 ml. Ac₂O treated with cooling with 30 ml. Ac₂O satd. with HCl, at 10-15°, then heated 1 hr. to 50°, evapd. *in vacuo*, and the residue treated with ice-H₂O yielded 85% tetraacetyl-*D*-ribose acid, m. 139-40° (from AcOH). This with SOCl₂ heated slowly to 60°, then 3 hrs. at 70°, gave on evapn. 80% tetraacetyl-*D*-ribofuranyl chloride, m. 65-70°, which can be hydrolyzed without further purification over 20% Pd-C in boiling xylene, yielding 80-92% tetraacetyl-*D*-ribose, m. 99-5°. This (3 g.) refluxed with 8 g. Ba(OH)₂ in 100 ml. H₂O 0.75 hr., filtered hot, and the filtrate treated with CO₂, filtered again, and the filtrate evapd. *in vacuo* and treated with EtOH gave crude *D*-ribose, which, taken up in 2 parts MeOH, treated with excess ρ -BrC₆H₄NHNH₂ and 2.5% AcOH, and evapd. *in vacuo* gave, after addition of a little H₂O, *D*-ribose ρ -bromophenylhydrazone, m. 166-7°; this in boiling H₂O treated with BzII and BzOII and heated 1 hr.

V. M. BERCEZOVSKII

on a steam bath, cooled, filtered, the filtrate extd. thoroughly with Et_2O , and the aq. soln. clarified and evapd. *in vacuo*, gave D(-)-ribose, m. 87°. Hydrogenation of crude tetraacetylribose at 50 atm. and 65-70° over Raney Ni in abs. EtOH in the presence of 3,4-Me₂C₆H₄NH₂ gave 3,4-dihydroxy-D-ribamine, m. 141-2° (from H_2O). VIII. Oxidation of aldoses. V. M. Bercezovskii. *Biol.* 94:1-8.—D-Glucose monohydrate (80 g.) in 100 ml. H_2O treated with 1.10 g. 40% KOH, dild. to 500 ml., oxidized with O in an autoclave filled with metallic gauze 2.5 hrs. below 50° (35 atm. initially), and the mixt. evapd. *in vacuo* and treated with MeOH gave 60 g. K arabonate, which with CaCl_2 in aq. soln. yielded 80% Ca D-arabonate, needles (from H_2O). The kinetics of the oxidation of glucose with O in the presence of aq. KOH was studied at 35-60°. The formation of arabonic acid occurs within narrow temp. limits; above 50° the yield declines. The course of the reaction is independent of the concn. and amt. of KOH used. The formation of $(\text{CO}_2\text{H})_2$ in small amts. indicates a parallel destructive oxidation. The results of variation of the amt. of O used, temp., and amt. of KOH are given graphically. The results indicate that the oxidation proceeds through formation of the enediol form under the influence of KOH, after which oxidation takes place at the 1st and 2nd C atoms, with rupture of the ethylenic bond, yielding HCO_2H and arabonic acid. Since 2 atoms of O are utilized per mole, the initial formation of 2-oxo-D-gluconic acid is eliminated.

G. M. Kosolapoff

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RODIONOVA, E. P.

USSR/Chemistry

Card 1/1

Authors : Berezovskiy, V. M.; Rodionova, E. P.; and Strol'chunas, L. I.

Title : Conversion and synthesis of carbohydrates. Part 10.- Derivation of d- and l- lyxoflavines.

Periodical : Zhur. Obshchei Khim. 24, Ed. 4, 628 - 635, April 1954

Abstract : The authors synthesized l-lyxose from diacetone-2-keto-l-gulonic acid by a series of conversions. Epimerization of the l-lyxonic acid was carried out in form of cadmium binary salt. The l-lyxonic acid was converted into l-lyxose by lactonization and electrolytic reduction on a mercury cathode. The d- and l-lyxoflavines were synthesized by condensation of lyxose with 3, 4-dimethylaminobenzene, reduction of the obtained N-glucoside into lyxamine, its azocombination and condensation of the azo-dye with barbituric acid. Fourteen references; 7 USSR since 1886; 1 Mexican 1949-1950; 2 Swiss since 1935; 4 USA since 1947. Chemical formulas.

Institution : All-Union Scientific Research Vitamin Institute.

Submitted : August 7, 1953

Rodionova, E.P.

Transformation and synthesis of carbohydrates. X.
Preparation of d- and L-lyzoflavines. V. M. Brezovskii, E.
U.S.S.R. P. Rodionova, and L. I. Strel'chunas. *J. Gen. Chem.*
U.S.S.R. 24, 639-44 (1954) (Engl. translation).—See *C.A.*
48, 10595d. H.L.H.

✓ 201

RODIONOVA, YE. P.

USER/ Chemistry - Yes

Card 1/1 Pub. 22 - 12/51

Authors : Berezovskiy, V. M., and Rodionova, E. P.

Title : Effect of steric hindrances on the reactivity of arylazoglucamines

Periodical : Dok. Akad. SSSR 101/1, 85-89, Mar 1, 1955

Abstract : The difference in the reactivity of arylazoglucamines with free ortho-position with respect to the azo-group and with the ortho-position replaced by the methyl group, was established as being connected with the steric hindrances originating during the attack on the azo-group by the methylene group of the barbituric acid the hydrogen atoms of which are activated by two alpha-cabonyls. The steric hindrances could be overcome provided the azo-group of these compounds is first reduced into the amino group and the methylene group is substituted by a more active carbonyl group. Nine references: 7 USSR and 2 USA (1944-1953). Table; graph.

Institution : All-Union Scientific Research Vitamin Institute

Presented by : Academician I. N. Nazarov, September 10, 1954

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.

Conversion and synthesis of carbohydrates. Part 14. Steric hindrance
in the azo compounding of arylglucamines. Zhur. ob. khim. 26 no.3:
745-750 Mr '56. (MLRA 9:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Glucamine) (Azo compounds) (Steric hindrance)

Rodionova, E. P.

Transformations and synthesis of carbohydrates. XIV.
Steric hindrance in azo coupling of arylglucamines. V. M.
Berezovskii and E. P. Rodionova. J. Gen. Chem. U.S.S.R.
26, 855-8(1956)(English translation).—See C.A. 50, 14857f.

B. M. R.

Chem.

2

PM

RODIONOVA, Ye.P.

Clinical aspects of thrombosis of the basilar artery. Vop. psich.
i nevr. no.3:281-288 '58. (MIRA 12:3)

1. Iz kliniki nervnykh bolezney Voyenno-meditsinskoy ordena Lenina
akademii im. S. M. Kirova.
(BASILAR ARTERY) (THROMBOSIS)

BEREZOVSKIY, V.M.; GURKO, L.N.; RODIONOVA, Ye.P.

Nonspore-forming synthesis of 4,5,N¹,N¹-tetramethyl- 1,2-diaminobenzene.
Zhur. ob. khim. 32 no. 9:2951-2954 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Benzene) (Methylation)

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.; GURKO, L.N.

Alloxazine and isoalloxazine series. Part 7: Interaction
of alloxan with anilines and phenylenediamines. Zhur.ob.khim.
32 no.10:3368-3372 0 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy
institut.

(Alloxan) (Aniline)
~~(Phenylenediamine)~~

BEREZOVSKIY, V.M.; TUL'CHINSKAYA, L.S.; YEREMENKO, T.V.; RODIONOVA, Ye.P.
BARSKAYA, M.A.

Series of alloxazine and isalloxazine. Part 5: Catalysts of the
reaction of secondary aromatic orthoaminoazo compounds with
trihydroxypyrimidines. Zhur. ob. khim. 31 no. 11:3689-3694 N '61.
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Alloxazine) (Isoalloxazine) (Catalysts)

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.

Obtaining 3,4-xylyl-N-d-ribitylamine from a mixture of d-ribose
and d-arabinose. Trudy VNIVI 6:5-10 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.
(RIBITYLAMINE)

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.

Double reaction capacity of stereoisomeric arylglycamines in
the azo coupling reaction. Trudy VNIVI 6:39-41 '59.

(MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Sinteticheskaya laboratoriya.

(GLYCAMINES)

AUTHORS: Berezovskiy, V. M., Rodionova, Ye. P. 79-28-4-42/60

TITLE: Synthesis of 5,6,7-Trimethyl Isoalloxazines (Sintez 5,6,7-trimetilizoalloksazinov)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol.28, Nr 4, pp 1046-1049 (USSR)

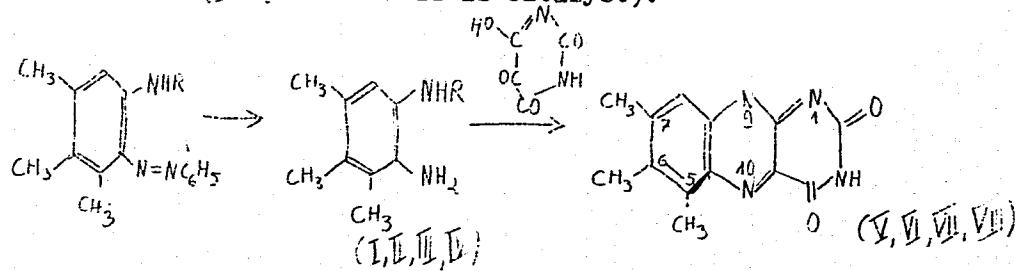
ABSTRACT: The authors showed already before (Ref 1) that a methyl group in the ortho position to the azo group in 3,4,5-trimethylphenyl-2-phenylazo-1-d-glucosamines, the initial products for the synthesis of isoalloxazines, causes steric "hindrance" in reactions and a strong deposition of the absorption band in the ultraviolet range. Therefore it was interesting to ascertain how the presence of methyl groups in position 5,6 and 7 at isoalloxazine compounds acts upon their spectrum. These positions of the methyl group correspond with the structure of riboflavin (position 6 and 7) as well as with the structure of one of the strongest antivitamins - the isoriboflavin (position 5 and 6) (Ref 2). As the steric isomerism of the pentite side chain in 3,4-dimethylphenyl-1-d-glucosamines has influence upon their reactivity (Ref 3), the authors tried to ascertain the influence of such a iso-

Card 1/4

79-28-4-42/60

Synthesis of 5,6,7-Trimethyl Isoalloxazines

merism in 3,4,5-trimethylphenyl-2-amino-1-d-glucosamines (formulae I - IV). For this purpose 5,6,7-trimethylisoalloxazines (V - VIII) with tetraoxoalkyl substituents in position 9 were produced, which correspond in the configuration of the hydroxyl groups with all 4 possible pentite rests (d-ribite, d-arabite, d-xylite, d-lyxite). The corresponding 3,4,5-trimethyl-2-phenylazo-1-d-glucosamines were converted by catalytic hydration into the compounds of the formulae I-IV, which with alloxane were condensed to isoalloxazines (50° ; boric acid as catalyst):



Card 2/4

79-20-4-42/60

Synthesis of 5,6,7-T trimethyl Isoalloxazines

R... pentiterest: d-ribite (I, V), d-arabite (II, VI), d-xylite (II, VII), and d-lyxite (IV, VIII). Isoriboflavine (Ref 4) was produced of 3,4-dimethylphenyl-2-phenylazo-1-d-ribitylamine by reduction of the phenylazo group and subsequent condensation with alloxane. The introduction of a methyl group in peri position to nitrogen causes a strong diminution of the absorption intensity up to 60-70 % in the visible range. Besides the deposition of the third absorption maximum in the ultraviolet range to 10 m μ for isoalloxazines with methyl groups in the position 5 and 6 and to 22 m μ for derivatives with methyl groups in the positions 5, 6 and 7 of the isoalloxazine core takes place. These both phenomena base upon steric hindrances. On that occasion the nitrogen lifted out of the ring plane and simultaneously the plane arrangement of the conjugate system
$$\begin{array}{c} \text{-N=C-C=N-} \\ \text{to} \quad | \quad | \\ \text{-N=C-C=N-} \end{array}$$
, into which comes the chromophoric azomethin group
$$\begin{array}{c} \text{-N=C-} \\ \text{to} \quad | \\ \text{-N=C-} \end{array}$$
, is disturbed.

Furthermore, results that the introduction of a methyl group in peri position to the heteroatom of the nitrogen (thus in

Card 3/4

79-28-4-42/60

Synthesis of 5,6,7-Trimethyl Isoalloxazines

position 5) causes a sharp diminution of the fluorescence, which is characteristic for the flavines. This means that the observed conjugate system, which is coplanar with the plane of the molecule, is responsible for the ability of the flavine to fluorescence. The intensity of the fluorescence depends on the degree of the coplanar position of the conjugate system with the plane of the molecule core. For the 5,6-dimethyl-9-(1-d-ribityl)-isoalloxazine (riboflavine) and the 5,6,7-dimethyl-9-(1-d-ribityl)-isoalloxazine (formula V) the absorption spectra were taken in the infrared range (with participation of L. V. Lukyanova).

In an experimental part the production of aminoglucosamines and isoalloxazines is exactly described. There are 3 figures, 3 tables, and 4 references, 2 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut
(All-Union Scientific Research Institute for Vitamins)

SUBMITTED: January 10, 1957

Card 4/4

RODIONOVA, YE. P.

USSR/Organic Chemistry. Natural Compounds and their
Synthetic Analogues.

E-3

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19292

Author : Boryozovskiy V. M., Rodionova Ye. P.

Inst :

Title : Conversion and Synthesis of Carbohydrides. XIV. Spherical
Difficulties at the Azoconfiguration of Arylglucamines.

Orig Pub: Zh. obshch. khimiyi, 1956, 26, No 3, 745-750

Abstract: The observation of the decreasing power of N-(3,4,5-trimethylphenyl)-glucamines (I) to azocombination is explained by the steric difficulties provoked by the ortho-position of the CH₂ group in relation to the azo-group. Stereoisomeric azo-dyes (A) are obtained by means of condensation (heating in 50 cc anhydr. alcohol 30-40 minutes) of 1.8 g (CH₃)₃C₆H₂NH₂ and 2 g. corresp. pentose (D-ribose, D-arabinose, D-xylose, D-lyxose) in N-(3,4,5-

Card : 1/2

Rodionova, Ye.P.

BEREZOVSKIY, V.M.; RODIONOVA, Ye.P.

Synthesis of 5,6,7-trimethylisoalloxazines. Zhur. ob. khim. 28
no. 4:1046-1049 Ap '58. (MIRA 11:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Alloxazine--Spectra) (Flavins)

Rodinova, Yu. P.

Category: USSR / Diseases of Farm Animals. General Problems.

V-1

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72254

Author : Fedotov N. S., Rodinova Yu. P.

Inst : Not given

Title : The Pavlovski Mixture in the Treatment of Infected Wounds.

Orig Pub: Sb. Nauch. Tr. Ivanovsk. S. Kh. In-ta, 1956, 13, 55-58

Abstract: Pavlovski Mixture (Iodine 8-10 gm, ichthyol 6-8 gm and glycerine 100 gm) was administered to infected wounds in horses. This mixture had a favorable effect on the healing process of infected wounds; the treatment was particularly effective when the mixture was used in conjunction with good surgical procedures and with the use of autohemotherapy and radiation therapy.

Card : 1/1

-7-

RODIONOVA, Z.A.; ARONINA, R.S.

Hypnosis for treating hypertension. Sov.med.19 no.8:65-69 Ag '55.
(MLRA 8:10)

1. Iz Gor'kovskogo gorodskogo psikhonevrologicheskogo dispansera
(zav. Z.A.Rodionova) i fakul'tetskoy terapevticheskoy kliniki
Gor'kovskogo meditsinskogo instituta imeni S.M.Kirova (zav.
kafedroy - prof. A.I.Gefter)

(HYPERTENSION, therapy
hypnosis)

(HYPNOSIS, ther.use.
hypertension)

400-2700000-100

STUKANOV, Leonid Aleksandrovich; TKACHENKO, N.I., redaktor; RODIONOVA, Z.A.
redaktor; DZHATIYEV, S.G., tekhnicheskiy redaktor

[Teaching mechanical drawing in the secondary school; experience of
a teacher] Opyt prepodavaniia cherchenii v srednei shkole; iz opyta
raboty uchitelia. Pod red. N.I. Tkachenko. Moskva, Gos. uchebno-pe-
dagog. izd-vo M-va prosv. RSFSR, 1956. 66 p. (MLRA 10:4)
(Mechanical drawing-Study and teaching)

KUZ'MENKO, Vasiliy Ivanovich; RODIONOVA, Z.A., redaktor; TSYPPO, R.V.,
tekhnicheskiy redaktor

[Plans for lessons in mechanical drawing for class 8 of the secondary
school] Plany urokov po chercheniiu dlia 8 klassa srednei shkoly; iz
opyta raboty. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva pro-
sveshcheniya RSFSR, 1956. 75 p. (MLRA 9:10)

(Mechanical drawing--Study and teaching)

EYDEL'S, Leonid Markovich; RODIONOVA, Z.A., redaktor; RYBIN, I.V.,
tekhnicheskiy redaktor

[Equipment for lessons in mechanical drawing and extracurricular
work; a manual for teachers] Oborudovanie urokov cherchenii i
vneklassnaia rabot; posobie dlia uchitelei. Moskva, Gos. uchebno-
pedagog. izd-vo Ministerstva prosveshcheniya RSFSR, 1956. 79 p.
(Mechanical drawing--Study and teaching)

PALAGIN, Nikolay Pavlovich; RODIONOVA, Z.A., redaktor; SMIRNOV, G.I.,
tekhnicheskiy redaktor

[Album of models for mechanical drawing] Al'bom modelei dlja proektsionnogo chercheniiia. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.
RSFSR, 1956. 99 p.

(Mechanical drawing)

Родионова, З.А.

BOTBINNIKOV, Aleksandr Davidovich; LOSHAKOV, N.I., redaktor; RODIONOVA, Z.A.
redaktor; DZHATIYEV, S.G., tekhnicheskiy redaktor.

[Manual for teachers of drawing] Spravochnik dlja uchitelei cherneniia.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1956. 19 p. 100
tables of diagr., symbols, plans.
(MLRA 10:6)
(Drawing--Instruction)

CHERNYAYEV, S.I., redaktor; TEACHENKO, N.I., redaktor; RODIONOVA, Z.,
redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Teaching mechanical drawing in the secondary school] Iz opyta
prepodavaniia cherchenii v srednei shkole; sbornik statei. Moskva,
Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 106 p.
(Mechanical drawing--Study and teaching) (MLRA 10:4)

KUZIN, Alekseandr Avraamovich; KUZ'MENKO, V.I., redaktor; RODIONOVA, Z.A.,
redaktor; SMIRNOV, G.I., tekhnicheskiy redaktor [REDACTED]

[Brief history of the development of drawing in Russia;
manual for teachers] Kratkii ocherk istorii razvitiia chertezha
v Rossii; posobie dlia uchiteli. Moskva, Gos. uchebno-pedagog.
izd-vo M-va prosv. RSFSR, 1956. 107 p. (MLRA 10:4)
(Drawing--History)

RUDOVICH, A. I.
BOTVINNIKOV, Aleksandr Davydovich; RODIONOVA, Z.A., redaktor; SMIRNOV, G.I..
tekhnicheskiy redaktor

[Polytechnic training in the teaching of drawing; a manual for
teachers] Nekotorye voprosy politekhnicheskogo obucheniya v pre-
podavanii chercheniya; posobie dlia uchitelei. Moskva, Gos.
uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 248 p.
(Drawing--Instruction) (MLRA 10:6)

CHEKOVA, Margarita Dmitriyevna; KOSYRINA, G.A., red.; RODIONOVA,
Z.A., red.

[Assignment cards on mechanical drawing. The ninth grade;
a teachers' manual] Kartochki-zadaniia po chercheniiu.
IX klass; posobie dlia uchitelei. Moskva, Izd-vo
"Izrosveshchenie," 1964. 301 p. (MIRA 17:7)

KHOTIMSKAYA, Ol'ga Valentinovna; NAUMOVA, Ganna Alekseyevna;
RODIONOVA, Z.A., red.; KORNEYEVA, V.I., tekhn. red.

[Assignment cards on mechanical drawing for grades seven
and eight; teacher's aid] Kartochki-zadaniia po chercheniiu
dlia VII-VIII klassov; posobie dlia uchitelei. Moskva,
Uchpedgiz, 1963. 301 p. (MIRA 16:12)
(Mechanical drawing—Study and teaching)

BURAVTSEV, Nikolay Vasil'yevich; VLADIMIRSKIY, Grigoriy Alekseyevich;
GORDON, Vladimir Osipovich; OL'KHOVSKIY, Leonid Andreyevich;
RODIONOVA, Z.A., red.; KORNEYEVA, V.I., tekhn. red.

[Mechanical drawing; manual for students of pedagogical
institutes] Cherchenie; posobie dlja studentov pedagogiche-
skikh institutov. Izd.2., nerer. [By] N.V.Buravtsev i dr.
Moskva, Uchpedgiz, 1963. 399 p. (MIRA 17:1)

CHEKMAREV, Yakov Fedorovich, zasl. uchitel' shkoly RSFSR, kand. ped.
nauk; SNIGIREV, Valerian Timofeyevich; RODIONOVA, Z.A., red.;
SMIRNOVA, M.I., tekhn. red.

[Methodology of teaching arithmetic] Metodika prepodavaniia
arifmetiki; posobie dlia pedagogicheskikh uchilishch. Izd.12.
Moskva, Uchpedgiz, 1962. 327 p. (MIRA 16:1)
(Arithmetic--Study and teaching)

ZENGIN, Aleksandr Rafailovich; RODIONOVA, Z.A., red.; ZYKINA,
T.N., tekhn. red.

[Fundamental principles of the construction of figures in
solid geometry; manual for teachers] Osnovnye printsypy
postroeniia izobrazhenii v stereometrii; posobie dlia uchi-
telei. Izd.2., perer. Moskva, Uchpedgiz, 1962. 105 p.
(MIRA 15:7)

(Geometry, Solid)

BOTVINNIKOV, Aleksandr Davydovich; RODIONOVA, Z.A., red.; KORNEYEVA,
V.I., tekhn. red.

[Collection of practical problems on mechanical drawing] Sbornik
prakticheskikh zadach po chercheniiu; posobie dlja uchitelei. Mo-
skva, Uchpedgiz, 1961. 347 p. (MIRA 15:6)
(Mechanical drawing--Study and teaching)

PAVLOV, Grigoriy Mikhaylovich; RODIONOVA, Z.A., red.; ZYKINA, T.N.,
tekhn.red.

[Reading sketches by the method of modelmaking] Chtenie
chertezhei metodom modelirovaniia. Izd.2., perer. Moskva,
Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1961. 62 p.
(MIRA 15:4)

(Mechanical drawing)

CHEVERUKHIN, Nikolay Fedorovich; RODIONOVA, Z.A., red. ; KREYS, I.G.,
tekhn. red.; TSIRUL'NITSKIY, N.P., tekhn. red.

[Projective geometry] Proektivnaia geometriia. Izd.7. Moskva,
Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1961. 359 p.
(MIRA 15:2)

(Geometry, Projective)

POPOVA, Nataliya Sergeyevna; RODIONOVA, Z.A., red.; MAKAROVA, N.F.,
tekhn. red.

[Didactic material on arithmetic for grade 3 teacher's manual]
Didakticheskii material po arifmetike dlia III klassa; posobie
dlia uchitelei. Izd.4., ispr. Moskva, Gos. uchebno-pedagog.
izd-vo N-va prosv. RSFSR, 1961. 151 p. (MIRA 15:2)
(Arithmetic--Study and teaching)

VINOGRADOV, Viktor Nikonorovich; RODIONOVA, Z.A., red.; KARPOVA, T.V.,
tekhn.red.

[Extracurricular work on mechanical drawing in school; teachers
manual] Vneklassnaia rabota po chercheniiu v shkole; posobie
dlia uchitelia. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.
RSFSR, 1961. 100 p. (MIRA 14:6)
(Mechanical drawing—Study and teaching)

VOROTNIKOV, Il'ya Alekseyevich; RODIONOVA, Z.A., red.; KORNEYEVA, V.I.,
tekhn.red.; KARPOVA, T.V., tekhn.red.

[Entertaining mechanical drawing] Zanimatel'noe cherchenie.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960.
130 p. (MIRA 14:4)
(Mechanical drawing)

VLADIMIRSKIY, Grigoriy Alekseyevich; RODIONOVA, Z.A., red.; KOVALENKO,
V.L., tekhn.red.

[Visual images in parallel projections; teachers' manual]
Nagliadnye izobrazheniya v parallelnykh proektiiakh; posobie
dlia uchitelei. Moskva, Gos.uchabno-pedagog.izd-vo M-vy
prosv.RSSR, 1960. 130 p.
(MIRA 14:2)
(Mechanical drawing--Study and teaching)

RASSOKHIN, Valerian Vasil'yevich; TSELINSKIY, Nikolay Aleksandrovich;
RODIONOVA, Z.A., red.; DZHATIYEVA, V.Kh., tekhn.red.; SHCHEPTEVA,
T.A., tekhn.red.

[Incomplete images in orthogonal projection; textbook for teachers]
Nepolnye izobrazheniya v ortogonal'nykh proektsiakh; posobie dlia
uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR,
1960. 63 p. (MIRA 13:5)

(Orthographic projection)

ZNAMENSKIY, Mikhail Yevgen'yevich; RODIONOVA, Z.A., red.; GOLOVKO, B.N.,
tekhn.red.; SHCHEPTEVA, T.A., tekhn.red.

[Geometrical figures in technical forms. Textbook for teachers of
secondary schools] Geometricheskie figury v tekhnicheskikh
formakh; posobie dlja uchitelei srednei shkoly. Moskva, Gos.
uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 152 p.

(MIRA 13:4)

(Geometrical drawing--Study and teaching)

ZNAMENSKIY, Mikhail Alekseyevich [deceased]; RODIONOVA, Z.A., red.;
DRANNIKOVA, M.S., tekhn.red.

[Field measurements; manual for students at the departments
of physics and mathematics of pedagogical institutes] Izme-
ritel'nye raboty na mestnosti; posobie dlja studentov fiziko-
matematicheskikh fakul'tetov pedagogicheskikh institutov.
Izd.2. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSSR,
1960. 190 p. (MIRA 13:5)

(Surveying)

ZELENIN, V. I.; RODIONOVA, Z. A., red.; SMIRNOVA, M. I., tekhn. red.

[Assignments for students of correspondence secondary schools; mechanical drawing] Zadaniia dlia uchashchikhsia zaochnoi srednei shkoly: Cherchenie. VII klass. Izd. 4., perer. Sost. E. V. Zelenin. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 44 p. (MIRA 12:7)

1. Russia (1917- R.S.F.S.R.) Ministerstvo prosveshcheniya.
Glavnoye upravleniye shkol.

(Mechanical drawing--Instruction)

BOTVINNIKOV, Aleksandr Davydovich; RODIONOVA, Z.A., red.; NATAPOV, M.I.,
tekhn.red.; GOLOVKO, V.N., tekhn.red.

[Preparation and use of drawings in modern industrial practice;
manual for teachers] Izgotovlenie i primenenie chertezhei v
sovremennom proizvodstve; posobie dlja uchitelei. Moskva, Gos.
uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1958. 95 p. (MIRA 12:4)
(Mechanical drawing)

ABRIKOSOV, Aleksandr Aleksandrovich; RODIONOVA, Z.A., red.; TSIRUL'NITSKIY,
N.P., tekhn.red.

[Workbook for mechanical drawing; a manual for students in the
8th grade of the secondary schools] Rabochaya tetrad' po
chercheniu; uchebnoe posobie dlja uchashchikhsja VIII klassa
srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-vo M-v-a
prosv. RSFSR. No.2. 1958. 13 p., 40 diagrs. (MIRA 12:2)
(Mechanical drawing)

VLADIMIRSKIY, Grigoriy Alekseyevich; RODIONOVA, Z.A., red.; GOLOVKO, B.N.,
tekhn.red.

[Perspective; manual for secondary school teachers] Perspektiva;
posobie dlja uchitelei srednei shkoly. Izd. 2. Moskva, Gos.
uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. 130 p. (MIRA 12:2)
(Perspective)

IRDNIYEV, Pyurva Muchkayevich; RODIONOVA, Z.A., red.; POKOMAREVA, A.A.,
tekhn. red.

[Developing the habit of checking one's work in the study of
mathematics] Razvitiye navykov samokontrolia pri obuchenii
matematike. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.
RSFSR, 1957. 68 p. (NIRA 11:10)

(Mathematics--Study and teaching)

TOPOR, Mariya Mitrofanovna [deceased]; SKATKINA, L.N., red.; RODIONOVA,
Z.A., red.; MAKHOVA, N.N., tekhn. red.

[Practical work in arithmetic for the third and fourth grades]
Prakticheskie raboty po arifmetike v III i IV klassakh. Pod
red. L.N. Skatkina. Moskva, Gos. uchebno-pedagog. izd-vo M-va
prosv. RSFSR, 1957. 44 p. (MIRA 11:8)
(Arithmetic—Problems, exercises, etc.)

IGNAT'YEVA, Matrena Aleksandrovna; POLYAK, G.B., red.; RODIONOVA, Z.A., red.;
KREYS, I.G., tekhn. red.

[Developing independent solution of problems in the first grade]
Privitie navykov samostoiatel'nogo reshenia zadach v I classe.
Pod red. G.B. Poliaka. Moskva, Gos. uchebno-pedagog. izd-vo M-va
prosv. RSFSR, 1957. 69 p. (MIRA 11:7)
(Arithmetic--Study and teaching)

LIPKIN, Abram Yefimovich; RODIONOVA, Z.A., red.

[Descriptive geometry in drawings; textbook for students of pedagogical institutes] Nachertatel'naia geometriia v chertezhakh; posobie dlja studentov pedagogicheskikh institutov. Moskva, Prosveshchenie, 1964. 126 p.
(NIHA 18:1)

Kuz'menko, V.I.
KUZ'MENKO, Vasiliy Ivanovich; RODIONOVA, Z.A., red.; SMIRNOV, G.I., tekhn.red.

[Lesson plans for mechanical drawing in grade ten of the secondary school based on practice; a manual for teachers] Plany urokov po chercheniiu dlia 10 klassa srednei shkoly; iz optyta raboty, posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1957. 64 p. (MIRA 10:12)
(Mechanical drawing--Study and teaching)

RODIONOVA, Z.A.

ZELENIN, Yevgeniy Vladimirovich; RODIONOVA, Z.A., red.; NEVSKIY, B.A.,
red.; SMIRNOV, G.I., tekhn.red.

[Mechanical drawing in secondary schools; a manual for drawing
teachers] Cherchenie v srednei shkole; v pomoshch' uchiteliu
chercheniya. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR,
(MIRA 11:1)
1957. 510 p.
(Mechanical drawing--Study and teaching)

KORENMAN, I.M.; RODIONOVA, Z.M.

Reactions of methylfurfurol and hydroxymethylfurfurol with some
aromatic amines. Trudy po khim.i khim.tekh. no.1:130-134 '63.
(MIRA 17:12)

RODIONOVA, Z. P.

AID P - 661

Subject : USSR/Electricity
Card 1/1 Pub. 27 - 30/31
Author : Rodionova, Z. P., Eng.
Title : The Technical Administration of the Ministry of Electric Power Stations of the U.S.S.R. (Current News)
Periodical : Elektrichestvo, 9, 93, S 1954
Abstract : In April 1954 the Technical Administration of the Ministry examined problems connected with the application of short-circuit protection of selected network circuits in power developments.
Institution : Ministry of Electric Power Stations of the U.S.S.R.
Submitted : No date

AID P - 2826

Subject : USSR/Electricity
Card 1/1 Pub. 27 - 15/30
Author : Rodionova, Z. P.
Title : Changes in security rules
Periodical : Elektrichestvo, 6, 70, Je 1955
Abstract : The author discusses the changes introduced on March 5, 1955 (No. 9/E) by the Technical Administration of the Ministry of Electric Power Stations of the USSR in "Security Rules for the Operation of High-Frequency Installations of Communication, Remote Control and Protection on Electric Transmission Lines". The changes are made in chapters 15, 21 and 33 of the "Rules" and concern the arresters.
Institution : None
Submitted : No date

Rodionova, Z. P.
AID P - 4112

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 23/24

Author : Rodionova, Z. P.

Title : From the Technical Administration of the Ministry of
Electric Power Stations (Current Events).

Periodical : Elektrichestvo, 11, 86-87, N 1955

Abstract : The author notes the most recent circulars of the
Technical Administration of Electric Power Stations:
1) On the Prevention of Incorrect Performance of Relay
Protection (No. E-1/55 of Ja. 21, 1955); 2) On the
Automatic Remote Reclosure of Transmission Lines,
Transformers and Buses (E-2/55 of Fe. 9, 1955); 3) On
the Selection of Settings of Maximum Current Protections
and Starting Current Devices of Remote Protection (E-4/55
of Fe. 21, 1955).

Institution : None

Submitted : No date

Rodionova, Z.P.

AID P - 1045

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 21/23

Author : Rodionova, Z. P., Eng.

Title : Scientific and technical conference on relay protection,
automatic and remote control. (Current Events)

Periodical : Elektrichestvo, 11, 95, N 1954

Abstract : A short report of a meeting held in Moscow from May 11 to 15,
organized by the Moscow branch of the All-Union Scientific
Society of Power Engineers and Technicians and the Techni-
cal Administration of the Ministry of Electric Power
Stations. A list of reporters is given.

Institution : None

Submitted : No date

RODIONOVA, Z. V.

"Possibility of Extending the Culture of Two-Yield Varieties of Potato in the Turkmen SSR." All-Union Order of Lenin Acad of Agricultural Sci imeni V. I. Lenin, All-Union Inst of Plant Raising, Leningrad, 1955
(Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

S/799/62/000/003/003/008

AUTHORS: Akinfiyev, A. B., Kuznetsova, V. P., Rodionova-Kuznetsova, S. G.

TITLE: Semiconductor control circuits of the external equipments of a specialized machine.

SOURCE: Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin. Tsifrovaya tekhnika i vychislitel'nyye ustroystva. no. 3. 1962, 24-29.

TEXT: The paper examines an equipment for the control of a photo-lead-in and a synchro-print-type printing equipment, both of which were developed at the Institute of Precision Mechanics and Computer Engineering, AS USSR. The lead-in is performed with the aid of a standard telegraphic five-position tape. The rate of feed of the perforated tape is 1.5 m/sec. The printing equipment is of the synchro-print type. The printing speed is 15-20 numbers per sec. The rate of printing is somewhat reduced when the start-stop system is employed for the printing of individual numbers. Opposite each row of digits, apertures are placed on the drum of the printing equipment, designating the digit in binary code on the given generation. The apertures are illuminated from within, and a photodiode is placed opposite each of them. The signals from the photodiodes are transmitted to the printing-control circuit. The solenoids of the striker mechanism were designed for tube-type control.

Card 1/2

Semiconductor control circuits of the external S/799/62/000/003/003/008

circuits, and it was therefore found advisable to retain the last cascade of the amplifier employing a thyratron of the type of T₁ (TGZ) -0.1/1.3. All other circuits for the control of the external equipment employ semiconductors. The functional scheme of the control equipment is described and depicted in a schematic graph. The functioning of the photodiodes with semiconductor amplifiers is described and depicted, and the printing amplifier and the schematics of the translation of the information from the binary system into the decimal system are shown. The entire control equipment is installed in a small console which contains 2 standard blocks: One block contains the tube-type circuitry with the sub-blocks of the thyratron amplifier and the voltage stabilizer for the thyratron anode supply. The second block contains the transistor sub-blocks of the control network. There are 5 figures and 1 Russian-language Soviet reference.

Card 2/2

RODIONOVSKIY, F.K.

Soil water balance under different crops of a field crop
rotation. Pochvovedenie no.12:90-98 D '59.
(MIRA 13:4)

1. Novocherkasskiy inzhenerno-meliorativnyy institut.
(Soil moisture) (Rotation of crops)

RODIONOVICH, V. M.

From the Russian for Dr. W. C. Wildman
Doklady Akad. Nauk SSSR
90 (4): 565-567; 1953

On Alkaloids of Galanthus woronovi. Structure of Galanthine.

by

N. F. Proskurnina
(Article presented by Academy Member, V. M. Rodionovii, April 13, 1953)/.

Translated at the National Institutes of Health, Bethesda, Maryland.
Full translation available in [redacted].

KOCHINOVSKI, F.

"The role of perennial grass mixtures and their component parts in soil structure." Tr. from the Russian. p. 29. (ANALELE ROMANO-SOVIETICE. SEMIA AGRICULTURA-ECOTEHNIE, Vol. 6, seria a II-a, no. 11, July/Sept. 1952. Bucuresti.)

SC: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

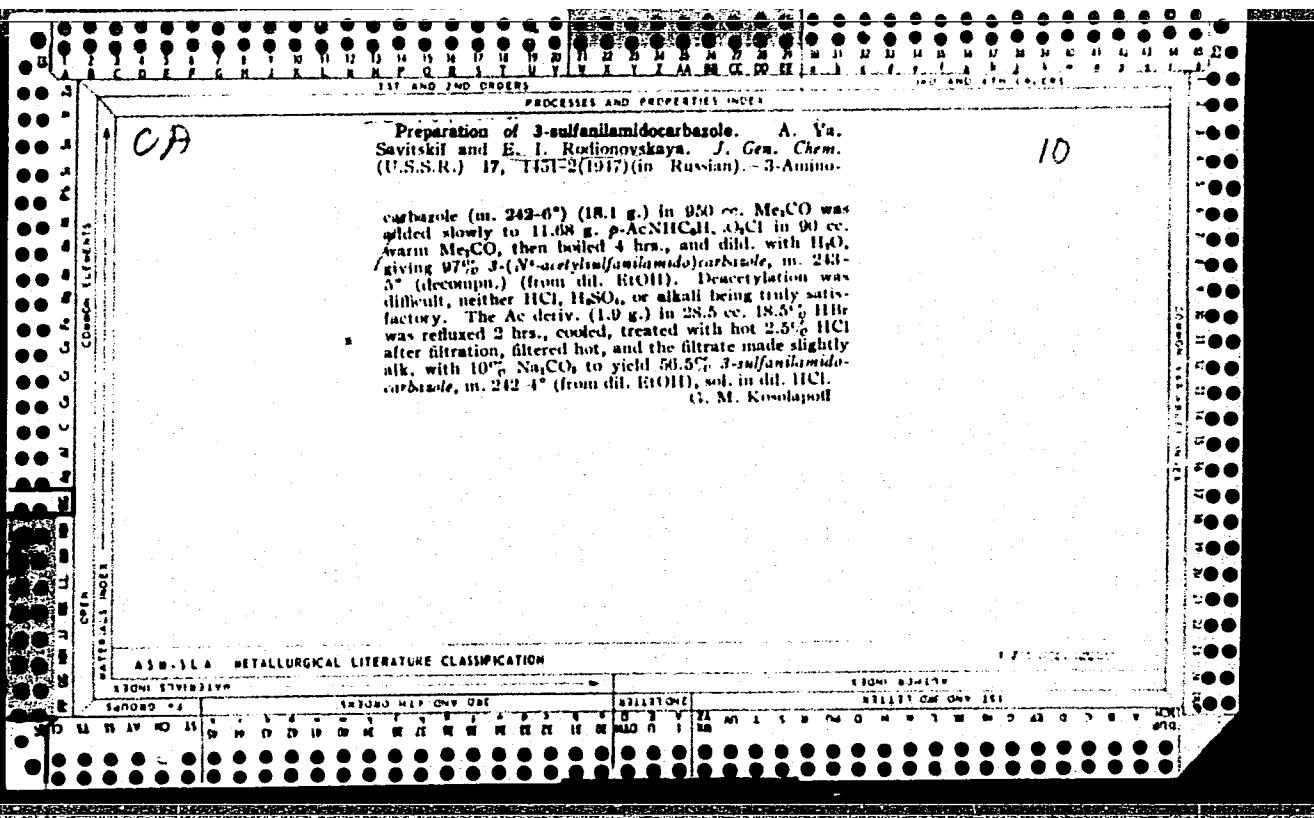
PETROVA, A.F.; KHALILI, N.A.; SHTAMM, L.K.; TRAKHTENBERG, D.M.; RODIONOVSKAYA,
E.I.; GORDINA, Z.V.

Extraction of a crystalline erythromycin base from aqueous solutions.
Med. prom. 14 no.9:32-36 S '60. (MIRA 13:9)

1. Sverdlovskiy zavod meditsinskikh preparatov i Vsesoyuznyy nauchno-
issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)

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cryst. from H₂O, m. 189-90°. 1-Aminopyridine (7.44 g.) in 15 ml. hot acetone was added to 10.4 g. of pure VII in 75 ml. of hot acetone. The reaction mixt. was heated to boiling for 6 hrs. on the water bath, while stirring. The liquid was poured off from the formed ppt. which was extd. 2-3 times with benzene, then with alc. It was filtered and washed with alc. The yield was 10 g. of VIII (88%). Shiny crystals, m. 243.5-4.5°, were obtained on recryst. from H₂O. VIII (0.32 g.) was heated with 1.28 ml. HCl (d, 1.05) on the water bath at 85-90° for 15-20 min. A 10% soda soln. was added, on cooling, to the reaction mixt. to a weak alk. reaction. The sep'd. cryst. ppt. was filtered and washed with H₂O. The yield was 0.4 g. of IX. On recryst. IX from dil. alc. it m. 217-18° (some decompn.). James J. Lichten.



BODIONOVSKAYA, E. I.

Apr 49

USSR/Chemistry - Oxazolones
Glycine

"Formation of Oxazolones From Acylated Glycocollys," M. M. Shemyakin, S. I. Lur'ye,
E. I. Bodionovskaya, Lab of Org Chem, Inst of Biol and Med Chem, Acad Med Sci, all-
Union ci Res Inst of Biol Prophylaxis, 4 pp

"Zhur Obshch Khim" Vol XIX, No 4

These glycocollys, specifically hippuric and phenaceturic acids, are converted into
their corresponding oxazolones. In the case of the oxazolone of the latter acid, it is
more expedient to extract it in the form of an N-acetyl derivative. Submitted 15 Jan 49.

PA 65/49T33